

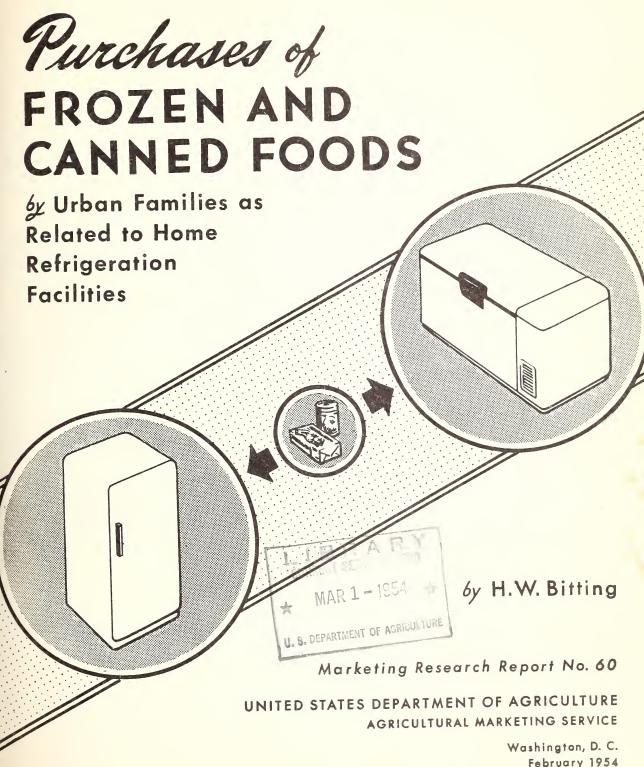


Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



Ag 84 MR



CONTENTS

	Page
Number of families buying frozen foods Extent of purchases by families buying	1
frozen foods	2
Purchases of canned and frozen foods	5
Effect of income on purchases of frozen	
and canned foods	8
Regional differences in frozen and canned	
food purchases	13

The data were supplied by the Market Research Corporation of America under contract with the United States Department of Agriculture, as authorized by the Agricultural Marketing Act of 1946 (RMA Title II). The data represent family purchases during 1952 of the urban family part of the panel living in cities over 2,500 population as contained in the Market Research Corporation of America's static sample.

PURCHASES OF FROZEN AND CANNED FOODS BY URBAN FAMILIES

AS RELATED TO HOME REFRIGERATION FACILITIES

By H. W. Bitting, Agricultural Economist Market Organization and Costs Branch

During the last 7 years the output of frozen foods has more than tripled. The limit of this expansion has not yet been reached. Farmers, processors, and distributors are interested in gaging the probable trend of the market for frozen foods and the effect which the increased use of frozen items may have upon sales of canned and fresh foods.

The study reported here was undertaken to give a basis for judging the potential market for some of the major frozen foods. It is based upon purchases by urban families of 12 frozen and 6 canned items. The study shows the possibilities for a substantial further increase in sales of the items studied.

Information on urban-family purchases of 12 frozen items (green peas, lima beans, snap beans, spinach, broccoli, cut corn, strawberries, orange juice concentrate, lemonade, whole chicken, chicken parts, and fish fillets) and 6 canned items (peas, whole kernel corn, orange juice, lima beans, snap beans, and spinach) during the calendar year 1952 was obtained for 2,040 families with 6,933 family members. 1/ The family purchase data were separated for each of four regions—(1) Northeast, (2) South, (3) North Central, and (4) Pacific, Mountain, and Southwest. Families were separated into two income groups: (1) Those having incomes of more than \$3,000 and (2) those with incomes of less than \$3,000. For each income group and region family purchase data were reported separately for each family which: (1) Owned a freezer through 1952; (2) bought a freezer in 1952; (3) owned a refrigerator with a frozen food compartment; (4) owned an ordinary refrigerator; and (5) owned neither a freezer nor a refrigerator.

NUMBER OF FAMILIES BUYING FROZEN FOODS

Only 3 of the 12 frozen items studied were bought by more than 50 percent of the families in the panel. These 3 items were frozen orange juice concentrate, frozen peas, and frozen strawberries, which were bought by 68, 52 and 50 percent of the potential users. For most of the 12 frozen items there appeared to be m significant differences between those

^{1/} According to the 1950 Census approximately two-thirds of the total
United States population reside in towns of 2,500 and over.

owning refrigerators only and those owning home freezers in the proportion of families buying frozen foods (table 1). Families that bought home freezers during the year tended to buy more of the frozen items but these differences were not statistically significant. Families who owned neither a refrigerator nor a home freezer had a smaller proportion of potential consumers buying frozen foods. The difference between frozen food purchases by owners and nonowners of refrigeration facilities was marked. 2/

According to the findings of this study many families did not buy any of the major frozen items during the entire year. Therefore, a substantial part of the potential market for frozen foods is made up of families that are not now buying frozen foods.

EXTENT OF PURCHASES BY FAMILIES BUYING FROZEN FOODS

Also, many of those families that do buy some frozen foods, buy them irregularly and in small quantities. Of the 12 items studied the average amount bought per family in 1952 ranged from a low of 3.5 packages of frozen whole chicken to a high of hh 6-ounce cans of frozen orange juice concentrate (table 2). The average per capita amounts ranged from 1 package of whole chicken to 13 6-ounce cans of frozen orange juice concentrate. Per capita purchases of green peas were only 4.2 packages, or roughly 1h packages per family. Aside from frozen green peas and orange juice concentrate, all yearly purchases of the remaining 10 items studied amounted to less than 3 packages per individual. These figures are based upon families that bought the particular frozen item; the averages would have been considerably lower had all families been included.

The Agricultural Marketing Service calculates civilian per capita consumption of frozen foods based upon the disappearance of each frozen item into commercial channels (table 3). These data include the quantities taken by institutional users as well as by households. Hence the Agricultural Marketing Service per capita consumption data should be higher than per capita consumption based upon consumer-sized units. However, a recent survey in Ohio showed that urban consumers tend to buy more frozen foods than do rural families. 3/ There is additional evidence that this relationship holds for other areas. Therefore, it is to be expected that the per capita consumption data obtained in this study would tend to be higher than the average for all persons in the United States.

^{2/} According to the 1950 Census 87 percent of the urban families owned refrigerators and 80 percent of all families owned refrigerators. It is estimated that in 1952 approximately 89 percent of the urban families owned refrigerators.

^{3/} Sherman, R. W., and Sharp, J.W. Use of Frozen Foods in Ohio. Ohio Agr. Expt. Sta. Research Bull. 714, April 1953. pp. 11.

Table 1.- Percentage of families who bought selected frozen foods, by ownership category of food storage facilities, 1952 1/

		Janu	January 1, 1952, to January 1,	ry 1, 1953		8
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	: Freezer	: Bought :	Owned refrigerators	: Owned	: Nonowners of	Total
Common	: owners	: freezers :	with frozen	: ordinary	: refrigerators	all:
	thru 1955	: during 1952 :	food compartments	: refrigerators	: and freezers	ty pes
	: Percent	Percent	Percent	Percent	Percent	Percent
	••					
Frozen:	••					
Peas	: 56	19	57	52	56	25
Lina beans	: 43	61	50	7	15	45
Snap beans	30	9	37	35	4	34
Spinach	36	53	36	35	18	35
Broccoli	36	47	39	ま	∞	35
Out corn (whole kernels)	56	竹	30	23	3	25
Strawberries	: 29	58	54	53	54	50
Orange juice (concentrate)	1 2	74	20	89	39	89
Lemonade	: 37	39	75	33	17	36
Whole chicken	. 18	22	56	56	30	25
Chicken parts	: 13	17	19	19	15	18
Fish fillets	: 37	50	94	43	56	43
	•					

Includes 506 consumers in families having home freezers; 171 consumers in families buying freezers during families having ordinary refrigerators; and 170 consumers in families not having either a refrigerator or home freezer. The total includes 6,933 consumers (6,727 listed by separate category of refrigeration ownership plus 23 unknown for freezer or refrigerator ownership plus 183 nonowners of freezers but unknown for refrigerators). the year; 2,232 consumers in families having refrigerators with frozen food compartments; 3,648 consumers in

Table 2.- Average number of packages of selected frozen foods purchased by families buying, 1952

	:			Packages		
Commodity	:	Per	:	Per	:	Weight
	:	capita	:	family 1/	:	Mergiio
	:	Number		Number		Ounces
	:					1
	:					
Peas	:	4.2		14.3		10
Lima beans	:	2.6		8.8		10
Snap beans	:	2.6		8.8		10
Spinach	:	2.4		8.2		14
Broccoli	:	2.0		6.8		10
Cut corn	:	1.7		5.8		10
Strawberries	:	2.5		8.5		10
Orange juice concentrate	:	12.9		43.8		6
Lemonade	:	2.4		8.2		6
Whole chicken	:	1.0		3.5		32
Chicken parts	:	1.4		4.8		16
Fish fillets	:	1.6		5.4		16

1/ There were 2,040 families with 6,933 family members. This gave an average of 3.4 members per family.

Table 3.- Average per capita consumption of selected frozen foods, U. S. civilians and urban families, 1952

	:	Average	per capita c	onsumption
Commodity	:	U. S. :	Urban fami	ly sample 2/
	:	civilians 1/:	All members	:Consuming members
	:	Pounds	Pounds	Pounds
	:			
Green peas	:	1.1/4	1.39	2.66
Lima beans	:	.70	•73	1.64
Snap beans	:	•52	.54	1.59
Spinach	:	.49	.72	2.07
Broccoli	:	.43	.43	1.23
Cut corn	:	3/	•27	1.06
Strawberries	:	1. T 9	•77	1.54
Orange juice concentrate	:	3.01	4/3.29	4.83
Lemonade	:	. 32	-33	.91
Whole chicken	:	3/	.52	2.08
Chicken parts	:	3/	.26	1.40
Fish fillets	:	3/	•68	1.58

1/ Based upon the total disappearance of frozen items into commercial channels as calculated by the Agricultural Marketing Service.

3/ Not available.

^{2/} Based upon Market Research Corporation of America's family purchase data from their static sample of urban families living in cities of more than 2,500 population.

^{4/} Based upon 16 fluid ounces.

With the exception of frozen strawberries, the per capita consumption data in this study are slightly higher than the Agricultural Marketing Service per capita consumption data based upon total disappearance of each frozen item.

Per capita consumption data for families that buy the frozen items were included in table 3 to show that these figures greatly exceed per capita consumption for all families. This reflects the fact that in most cases less than half the families bought any one of the listed frozen foods.

PURCHASES OF CANNED AND FROZEN FOODS

For peas, whole kernel corn, and snap beans more families bought the canned products than the frozen items. This relationship held true irrespective of whether these families owned refrigerators or home freezers (table 4). But more families who owned either a refrigerator or a home freezer bought frozen orange juice concentrate, frozen lima beans, and frozen spinach than bought the corresponding canned items. In each case, more of the nonowners of refrigerators and home freezers bought canned foods than bought the frozen items.

Some families bought neither the canned nor the frozen product. In the case of whole kernel corn, only 25 percent of the families bought the frozen product and 71 percent the canned. This could account for as much as 96 percent of the families if none of the purchasers of canned corn bought the frozen product. Similarly, for lima beans, snap beans, and spinach, the combined number of families who bought the canned and frozen products amounted to less than 100 percent of the families in the panel. However, in the case of the latter three items the purchase data for the canned products covered only 7 months, as shown in table 4. The corresponding purchases of frozen products were also calculated for the 7-month period in order to provide comparable information.

Average quantities of canned peas, corn and snap beans purchased by families buying these products were more than twice the quantities purchased in frozen form (table 5). In addition more of the families bought these canned products. Per capita purchases of canned and frozen lima beans were about the same and so was the number of families buying each product. In contrast, the per capita purchases of frozen orange juice and frozen spinach exceeded purchases of the canned product. More families bought frozen orange juice than bought canned orange juice. (The quantity of frozen orange juice concentrate must be quadrupled in order to obtain the single-strength amount which is comparable to canned orange juice). The number of families that bought frozen spinach was only slightly greater than the number of those who bought canned spinach.

Table 4 .- Percentage of families who bought selected frozen and canned foods, by ownership category of food storage facilities, 1952 1/

All	ent	0130			6 =		~~~	
	Percent	52 25	89	87	亿		888	37 61
Nonovmers of refrigerators and freezers	Percent	33	39	92 76	73		15 1 8	급%검
1, 1953 : Owned ordinary : refrigerators	Percent	23.23	89	88 17	55	to July 26, 1952 (7 months)	37 28 28	33
, 1952, to January 1, 1953 Owned refrigerators: with frozen food : Owne compartments : refr	Percent	30	70	89 76	49		작眠	39 863 86
January 1, 1952, Owned re: Bought freezers: with fireduring 1952: compa	Percent	19 171	7/7	77 78	17	January 1, 1952,	ଝ୍ୟଟ	<i>≅%</i> ₹
Freezer owners through 1952	Percent	56	7/7	57	777		25.23	85.45 80.57
Commodity	Ę	Frozen: Peas Whole kernel corn	Orange juice concentrate	Canned: Peas Whole kernel corn	Orange juice		Frozen: Lima beans Snap beans Spinach	Canned: Lima beans Snap beans Spinach

categories includes 6,933 consumers. (6,727 listed by separate category of refrigeration ownership plus 23 unknown for freezer or refrigerators ownership plus 183 nonowners of freezers but unknown for refrigerators. 1/ Includes 506 consumers in families having home freezers; 1/1 consumers in families buying freezers during the year; 2,232 consumers in families having refrigerators with frozen food compartments; 3,648 consumers in families having ordinary refrigerators, and 170 consumers in families having neither a refrigerator or a home freezer. All

Table 5.- Per capita purchases of families who bought selected frozen and canned foods, by ownership of food storage facilities, 1952 1/

		January 1	January 1, 1952, to January 1, 1953	1, 1953		
Commodity	Freezer owners: through 1952	Bought freezers : during 1952 :	Owned refrigerators with frozen food compartments	: : Owned ordinary : refrigerators	Nonowners of refrigerators and freezers	: All : categories :
	Ounces	Ounces	Ounces	Ounces	Ounces	Ounces
Peas Whole kernel corn	14.2	47.1 14.2	16.4	39.5	14.2 5.2	12.5 16.9
Urange juice concentrate	5/ 70.9	2/ 92•2	<u>2</u> / 80•9	2/ 77.44	2/10.1	2/ 77.3
Canned: Peas Whole kernel corn	: 72.9 34.6	67.1 30.1	89.9	88.44 0.114	101.5	88.3 39.6
Urange juice	3/ 99.5	3/53.8	3/129.8	3/116.8	3/ 96.5	3/116.8
Į		January 1, 1952,	., 1952, to July 26,	to July 26, 1952 (7 months)		
rrozen; Lima beans Snap beans Spinach	15.9 23.7 23.5	19.0 12.5 13.9	19.7 19.5 23.5	17.7 16.1 23.2	12.6 10.0 32.0	18.2 17.7 23.0
Canned: Lima beans	16,3	19.8	19.2	19,0	29.6	19.1
Snap beans Spinach	36.7	48.8 22.1	48.7 22.3	1,8.0 20.4	21.5	47.3 21.1
1/ Includes 500	: Includes 506 consumers in fami	illies having home freezers; 171	reezers; 171 consum	consumers in families buying freezers during	ying freezers du	ring the

year; 2,232 consumers in families having refrigerators with frozen food compartments; 3,648 consumers in families having ordinary refrigerators, and 170 consumers in families having neither a refrigerator or a home freezer. All categories include 6,933 consumers (6,727 listed by separate category of refrigeration ownership plus 23 unknown for freezer or refrigerator ownership plus 183 nonowners of freezers but unknown for refrigerators). Must be quadrupled to obtain single-strength fluid ounces.

Reported in single-strength fluid ounces.

There was no consistent pattern in the purchases of the six canned foods studied among the ownership categories of frozen food-storage facilities. Owners of home freezers tended to buy fewer canned products than the other ownership categories and nonowners of refrigerators and home freezers tended to buy more canned products.

EFFECT OF INCOME ON PURCHASES OF FROZEN AND CANNED FOODS

More of those families with incomes of less than \$3,000 a year bought canned peas, canned orange juice, canned lima beans, and canned spinach than did families with yearly incomes of more than \$3,000. The reverse was true for canned cut corn, where more of the higher income families bought canned corn than did families with yearly incomes of less than \$3,000. No significant difference that could be associated with differences in family income was found in purchases of canned snap beans (table 6).

The purchase pattern for frozen foods appeared to be the reverse of that for canned foods. More of the higher income families (those with incomes of more than \$3,000 a year) bought frozen foods for each of the 12 frozen items studied. Nevertheless, only a small proportion of the higher income families bought frozen foods. Six of the 12 frozen commodities studied were bought by less than 40 percent of the higher income families who owned home freezers and refrigerators having frozen food compartments. These items included frozen whole kernel corn, snap beans, spinach, broccoli, whole chickens, and chicken parts (table 6).

Per capita consumption for the canned items was higher for the lower income families. This relationship held for each of the six canned items studied (table 7). In contrast, per capita consumption for frozen foods tended to be higher in the higher income families (table 7). This relationship was found for 7 of the 12 frozen commodities—frozen peas, orange juice concentrate, lima beans, cut corn, snap beans, spinach, and broccoli. In the case of frozen strawberries and frozen lemonade, the differences in per capita consumption associated with income did not appear to be significant. For frozen fish fillets, whole chickens, and chicken parts, per capita consumption for the lower income families was higher than it was for the higher income families. However, there were more families in the higher income category that bought these products.

Table 6.- Percentage of families purchasing selected frozen and canned foods, by ownership of food storage facilities and by family income category, 1952 1/

		Under	r \$3,000					\$3,000 and	OVER	
		Owner of -		: Nonowner :		Õ	Owner of -		:Nonowner :	
Commod1ty		:Ref		of :	All	••	ger-	Ordinary	: of :	All
	: Freezer:	: frozen :food com-	refriger-	refriger-:	gories	reezer.	food com-	refriger- ator	refriger-:	gories
	: Percent	1	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Frozen:	••									
Peas	72 :	38	38	20	36	58	19	56	*	52
Lima beans	+72 :	41	35	15	35	45	51	3	15	47
Snap beans		72	22	1	21	35	047	39	89	38
Spinach	: 13	77	28	20	25	37	38	37	16	38
Broccoli	: 29	23	25	2	23	36	143	37	14	38
Out corn	: 11	17	19	ν,	17	27	33	77	•	27
Strawberries	: 32	37	17	ᆏ	39	59	82	26	15	23
Orange juice	••									
concentrate	. 68	57	2 †	31	53	九	2	22	647	22
Lenonade	!	33	54	4	54	047	丰	36	જ્ઞ	36
Whole chicken	1	30	21	35	23	19	25	22	77	56
Chicken parts	: 13	11	17	2	14	13	21	20	25	19
Fish fillets	. 18	745	36	נו	太	39	47	45	\$	45
Canned:	••									
Peas	: 95	91	89	95	8	47.	88	88	89	87
Whole Kernel	••	1	,	ě	,	,	ì	,	1	,
corn	: 47	22	29	8	69	58	2	22	22	22
Orange juice	3/2	56	55	20	58	745	47	53	92	20
Frozen:				January	1, 1952,	to July 2	26, 1952 (7	months)		
Lima beans	: 54	35	28	15	29	047	43	047	15	24
Snap beans	. ~	18	12	ł	16	56	34	35	-1	31
Spinach	: 13	22	20	٣	19	31	33	31	14	33
Canned:	••									
Lima beans	·	1	39	94	047	30	37	37	43	36
Snap beans	: 26	69	29	29	9	47	62	63	63	61
Spinach	39	35	25	14	56	18	25	27	\$	56

with irosen lood compartments; 3,040 consumers in ismilies naving ordinary reirigerators, and if consumers in families having neither a refrigerator nor a home freezer. All categories include 6,933 consumers (6,727 listed by separate category or refrigeration ownership plus 23 unknown for freezer or refrigerator ownership plus 183 nonowners of freezers but unknown for refrigerators).

				7	-0	gories		w l		× ×	9	ņ	0	4	7			10		ō,	9.0	ç	c	8	¥	200				10	ίχ		0.	7	30
		-		A11	cate-	gor	•	Pounds		200	1.00	1.6	2,10	1,2	1.07	1,5	:	2/200	8.	1.99	გ. ქ.	1.5	'n	2.62	0	3/7.02			וניינ	ר	1.15		1.10	2.9	1.3
£3,000 and over	: Nonowner:	of of	: freezer	: or	:refriger-:refriger-	: ator	••	Pounds	10	η 6 °0	1.41	.31 .31	2.29	%		1,88		5/ •66	.13	1.53	1.78	2.04	a r	2.10	2 60	3/4-31	i I		69	29	2002		1.20	3.10	1.10
€3,000			••	:Ordinary	refriger	.: ator		Pounds	1	2.46	1.59	1.47	2°09	1,23	1.03	1,38		2/4.90	98.	1.72	1.29	1•п	7	5.33	00 00	3/6.73	11		01.1	ה ה ה	100		1.10	2.98	1.26
	Owner of	.Refriger-:	ator	: with	: frozen	:-woo pooj:	:partment	Pounds	1	2.95	1.77	1.85	2,20	1.29	1,18	19.1		2/5:29	91	2.27	1.48	1.53	ì	5-53	10.00	3/8,24	11	(7 months	1.21	, ר על	1	1	1.14	2,98	1.37
der \$3,000 : 83,000			• ••	:Freezer	••	••	••	Pounds		3.16	1.50	2,03	2.17	1.26	.91	2.47		2/4.62	1,034	2.91	.98	1.21	7	4.30	6	3/6.20		26, 1952	20 [, C	1,50	7 / 10 4	.92	2,32	1,29
				A11	cate-	gories		Pounds		2.44	1.55	1.38	1.84	1.17	66.	1.56		2/3.97	26.	2.46	1901	1.99	7	6°34	0	3/8.23	- 1	2, to July	נונ	00	1.38	•	1.54	3.15	1,11
\$3,000	: Monowner:	of	freezer	or	-: refriger-	: ator		Pounds		0.81	1.57	ł	.92	£.	•32	88.		2/ •59	cu	1.83	1.30	4.32	C C	7.29	5	3/7.64	77	January 1, 1952	03	67.	7,	<u>}</u>	2.46	2.93	1.57
Under				:Ordinary		ator	••	Pounds		2.51	1.60	1.38	1.92	1.23	.93	1.51		2/4.53	1.02	5.69	1.83	2,13		6.20	6	3/9,27		Jann	אר ר	7.7	1.53 53	7.4	1.16	3.08	1,32
	Owner of	Befriger-	ator	with	frozen	:food com-:	: partment	Dounds		2.54	1.48	1.34	1.72	1,21	1.28	1.93		2/3.68	-93	1.75	1.62	1.56		10°9	,,	3/7.60	7		יור ר	† C	180	7.V.•4	1.42	3,30	1.19
			. 0	Freezer		• • •	••	Pounds		: 1.18	10.1	. 31	18	. 28	316	1.32		: 2/1.93	1		• • •	: 2,22		: 6.45		3/6.38			i a		10. RC	4	2.07	1,64	1.16
				Commodity					Frozen:	Peas	Lima beans	Snap beans	Spinach	Broccolt	Cut corn	Strawberries	Orange juice	concentrate	Lemonade	Whole chicken	Chicken parts	Fish fillets	Canned:	Pears	Whole kernel	corn Orange inice	Orango Jaroo		Frozen:	Lima Deans	Snap beans	Canned:	I,1ma beans	Snap beans	Spinach

of refrigeration ownership plus 23 unknown for freezer or refrigerator ownership plus 183 nonordinary refrigerators, and 170 consumers in families having neither a refrigerator nor a home freezer. All categories include 6,933 consumers (6,727 listed by separate category having refrigerators with frozen food compartments; 3,648 consumers in families having owners of freezers but unknown for refrigerators).

2/ Must be quadrupled to obtain single-strength fluid ounces.

REGIONAL DIFFERENCES IN FROZEN AND CANNED FOOD PURCHASES

There were significant differences among regions in per capita consumption of individual frozen fruits and vegetables as well as in the percentage of families buying these items. The United States population distribution by National Consumer Panel regions is shown in figure 1.

The Northeastern region had the highest per capita consumption for most of the frozen foods. Also, for most of the frozen foods it had the highest percentage of families buying. The Pacific, Mountain, and Southwestern region ranked second in per capita consumption and percentage of families buying. The North Central area was lowest in per capita consumption for 6 of the 12 frozen items studied. The South was lowest in 4 of the 12 frozen items. The North Central area had more families buying than did the South (tables 8 and 9).

Regional differences in food habits were apparent. For example, the South was either highest or next highest in both per capita consumption and percentage of families buying frozen lima beans, broccoli, and spinach. It was lowest or next lowest for frozen peas, orange juice concentrate, lemonade, and corne

For only three frozen items did the North Central area rank highest or next to highest in either per capita consumption or percentage of families buying. These items were frozen orange juice concentrate, strawberries, and frozen whole chickens. Only 25 percent of the families bought frozen whole chickens in the North Central area, whereas frozen orange juice concentrate was bought by 67 percent of the families in the area.

The purchase pattern for the six canned items studied was almost the reverse of the purchase pattern for frozen foods. The Northeastern region was either lowest or next to lowest in percentage of families buying for the six canned items studied.

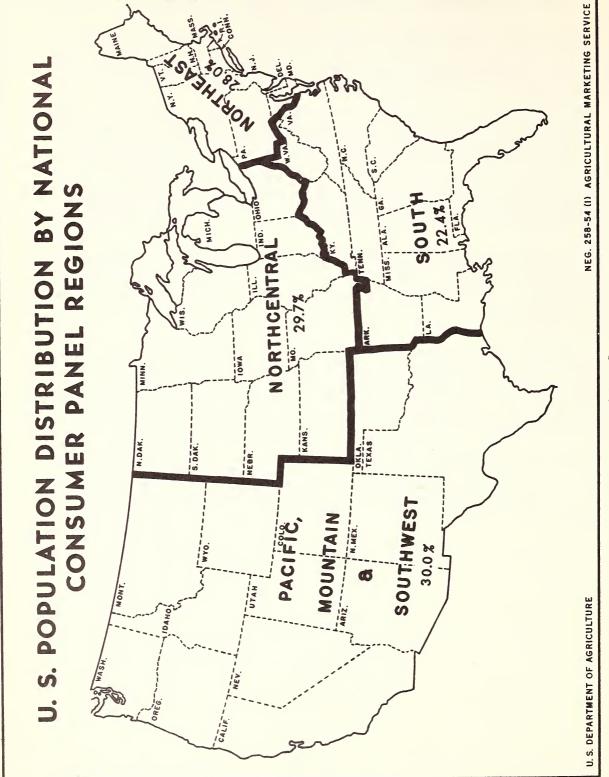


Figure 1

Table 8.- Percentage of families who bought selected frozen and canned foods, by regions, 1952

January 1, 1952, to January 1, 1953 Pacific, Mountain, : and Southwest Commodity : Northeast : North Central: South : (combined) : : Percent Percent Percent Percent : Frozen: 50 60 Green peas 54 43 37 58 46 45 Lima beans : Snap beans 25 37 41 29 : Spinach 45 29 32 30 41 30 36 32 Broccoli : Cut corn 24 23 21 33 Strawberries 55 49 52 43 Orange juice : 65 75 67 58 concentrate 33 29 33 Lemonade 43 25 23 36 Whole chicken 20 23 24 Chicken parts 12 17 : 46 36 35 Fish fillets : 47 Canned: 85 92 83 Pears 90 : Whole kernel : com 71 74 63 75 Orange juice 43 65 52 : : 1952 (7 months) 1952, to July 26, January 1, Frozen: : Lima beans 39 30 51 39 Snap beans 36 22 20 29 : 25 23 25 Spinach : 38 : Canned: 34 Lima beans 32 39 50 Snap beans 54 64 59 69 : Spinach : 19 31 26 34

Table 9.- Per capita purchases of families who bought selected frozen and canned foods, by regions, 1952

January 1, 1952, to January 1, 1953 : Pacific, Mountain, : Northeast: North Central: South and Southwest Commodity (combined) Pounds Pounds Pounds Pounds : Frozen: : 1.52 3.56 Green peas 3.12 1.79 1.87 1.19 1.88 Lima beans 1.59 Snap beans 1.80 1.23 1.26 1.77 2.42 1.55 1.98 Spinach 1.93 1.24 1.47 Broccoli 1.07 1.27 1.26 .80 .86 Cut com 1.15 1.69 1.44 1.61 1.44 Strawberries Orange juice 1/4.21 concentrate :1/ 6.16 1/ 3.67 1/ 3.79 .80 Lemonade .93 •69 1.17 2.28 1.56 Whole chicken 2.09 2.08 1.28 1.40 1.29 Chicken parts 1.71 Fish fillets : 1.85 1.31 2.13 1.12 2 Canned: 5.46 Peas 5.74 5.03 5.97 2 Whole kernel corn 2.51 2.58 2.20 2.41 :2/ 7.16 2/ 7.41 Orange juice 2/ 7.78 2/ 6.63 to July 26, January 1, 1952, 1952 (7 months) Frozen: .86 Lima beans 1.30 1.22 1.11 1.22 1.27 Snap beans 0 -8h .93 Spinach 1.71 1.08 1.36 1.28 2 Canned: 3 Lima beans 1.11 1.00 1.65 1.24 Snap beans 2.85 3.03 3.00 2.97 : Spinach : 1.07 1.36 1.19 1.60

^{1/} Must be quadrupled to obtain single-strength fluid ounces.
2/ Reported in single-strength fluid ounces.

